

APPENDIX 6

1. A matting agent composition comprising silica and wax wherein the composition has a median particle size in the range of 2 to about 5 microns, a wax content in the range of about 18 to 30% by weight of the silica and the silica has a pore volume in the range of about 0.8 to 1.4 cc/g.
2. A matting agent composition according to claim 1 wherein the wax content is about 18-22% by weight.
3. A matting agent composition according to claim 1 wherein the wax has a melting point in the range of 60-120°C.
4. A matting agent composition according to claim 1 wherein the wax has a melting point in the range of 60-90°C.
5. A matting agent composition according to claim 3 wherein the wax is paraffin and has a melting point in the range of 60-90°C.
6. Cancelled.
7. Cancelled.
8. A matting agent composition according to claim 1 wherein the silica has a pore volume in the range of about 0.9 to about 1.2 cc/g.
9. A matting agent composition according to claim 2 wherein the silica has a pore volume in the range of about 0.9 to about 1.2 cc/g.
10. Cancelled

11. Cancelled.

12. Cancelled.

13. Cancelled.

14. Cancelled.

15. Cancelled.

16. Cancelled.

17. Cancelled.

18. Cancelled.

19. Cancelled.

20. A coating composition comprising a radiation curable component and a matting agent component, the matting agent component having a median particle size in the range of 2-12 microns, a wax content in the range of about 18 to 30% by weight of the silica and a silica having a pore volume in the range of about 0.8 to 1.4 cc/g.

21. A coating composition according to claim 20 wherein the wax content is about 18-22% by weight.

22. A coating composition according to claim 20 wherein the wax has a melting point in the range of 60-120°C.

23. A coating composition according to claim 20 wherein the wax has a melting point in the range of 60-90°C.

24. A coating composition according to claim 20 wherein the median particle size of the matting agent component is about 2 to 5 microns.

25. A coating composition according to claim 20 wherein the silica has a pore volume in the range of about 0.9 to about 1.2 cc/g.

26. Cancelled.

27. A coating composition according to claim 20 wherein the radiation curable component is curable by exposure to ultraviolet radiation.

28. A coating composition according to claim 20 wherein the radiation curable component is curable by electron beam radiation.

29. A coating composition according to claim 20 further comprising a curing initiator.

30. A coating composition according to claim 20 wherein the radiation curable component comprises at least one acrylate-containing compound and the coating composition comprises 2% by weight or less of matting agent component.

31. A coated substrate comprising a substrate and a coating thereon comprising a composition according to claim 20.

32. A coated substrate comprising a substrate and a coating thereon prepared from a composition of claim 30 and the coating has a matting efficiency of about 20 gloss units or less at 60°.

33. A coated substrate comprising a substrate and coating thereon prepared from a composition comprising amine-modified polyether acrylate and about 12% by weight wax-containing silica matting agent component or less and the coating has a matting efficiency of about 60 gloss units or less at 60°.

34. A coating composition comprising a radiation curable component and a matting agent component, the matting agent component having a median particle size in the range of 2-12 microns, a wax content in the range of about 15 to 30% by weight of the silica and a silica having a pore volume in the range of about 0.8 to 1.4 cc/g. and wherein the radiation curable component comprises at least one acrylate-containing compound.

35. A coating composition according to claim 34 wherein the radiation curable component is curable by exposure to ultraviolet radiation.

36. A coating composition according to claim 34 wherein the radiation curable component is curable by electron beam reaction.

37. A coating composition according to claim 34 further comprising a curing initiator.

38. A coating composition according to claim 34 wherein the radiation curable component comprises at least one acrylate-containing compound and the coating composition comprises 2% by weight or less of matting agent component.

39. A coated substrate comprising a substrate and a coating thereon prepared from a composition according to claim 34.

40. A coated substrate comprising a substrate and a coating thereon prepared from a composition of claim 34 and the coating has a matting efficiency of about 20 gloss units or less at 60°.

41. A coated substrate comprising a substrate and coating thereon prepared from a composition comprising amine-modified polyether acrylate and about 12% by weight matting agent component or less and the coating has a matting efficiency of about 70 gloss units or less at 60°.

42. A matting agent composition according to claim 1 wherein the median particle size of the composition is about 6 microns.

43. A matting agent composition according to claim 2 wherein the median particle size of the composition is about 6 microns.